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C.D.S. GREENBLAST ABRASIVE

THE CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS

SUBSTANCE NAME: Glass **DESCRIPTION:** Rushed and screened cullet

Potential Health Hazards: Cullet can present a physical hazard from sharp particles, causing cuts and eye damage.
Cullet dust is a nuisance particulate and is biologically inert.

Hazardous Components: No specific limit value is currently specified by the Health and Safety Executive in their EH40/98 listings for airborne dust generated by this substance.
In the absence of any specific value it is recommended that the limit values for total inhalable and respirable dust which are considered as "Substantial" under the COSHH Regulations should be applied. These limits are: -

Total Inhalable Dust – approximates to the fraction of airborne material which enters the nose and throat during breathing and is therefore available for deposition in the respiratory tract.

OES (1) – an airborne concentration of 10 milligrams per cubic metre of air of total inhalable dust, measured as an eight hour time - weighted average.

Respirable Dust – approximates to the fraction of total inhalable dust which can penetrate the gas exchange region of the lung during breathing.

OES (1) – an airborne concentration of 4 milligrams per cubic metre of air of respirable dust measured as an eight hour time - weighted average.

Over Exposure – Accute Effects: Not Applicable

Over Expopsure – Chronic Effects: Not Applicable

PH Value : N/A Incompatibility: None

Other Hazards: Work clothing contaminated with cullet should be washed separately from other personal clothing because trapped glass particulates could cause skin irritation.

1) OES – Occupational Exposure Standard

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Handling Precautions:	Personal protective equipment (as listed below) should be worn. Whenever large quantities of cullet are handled the production of excessive dust should be avoided. Dry cullet should be wetted before shovelling manually.
First Aid Treatment:	
Eye Contact:	Pieces of cullet in the eye can easily cause permanent damage. Irrigate the eye with water and obtain medical attention.
Skin Contact:	Cuts and scratches should be attended to immediately, by reporting to the medical centre or a qualified first-aidier. Contact with cullet dust could cause skin irritation. If the irritation persists, or develops into a rash, obtain medical attention.
Inhalation:	Glass dust has no significant biological effect but it could interfere with comfort and welfare. There is no evidence to suggest that cullet causes permanent damage to the respiratory system.
Ingestion:	Glass is not toxic. Swallowing cullet could cause physical damage and in the event of this happening, medical attention should be obtained.
Personal Protection Requirements:	Eye protection should be worn. Whenever large quantities are handled manually the following protective equipment should be worn: - Overalls, stout gloves with close fitting tops, respiratory protection eg. 3M 8800 disposable dust mask, stout soled shoes or boots.
Fire Fighting Requirements:	Not combustible. No explosion hazard.
Waste Disposal Requirements:	This material can be recycled

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CDS GREENBLAST ABRASIVE**MATERIAL SPECIFICATION SHEET****TYPICAL CHEMICAL ANALYSIS (all figures approximate)**

	wt%
SiO ₂	72.2
Na ₂ O	13.3
K ₂ O	0.45
CaO	10.9
MgO	1.30
BaO	0.04
TiO ₂	0.06
Al ₂ O ₃	1.50
Fe ₂ O ₃	0.07
Cr ₂ O ₃	0.02
SO ₃	0.16

PARTICLE SIZE: nominal (1mm – 3mm)

CONTAMINANTS: g/metric tonne

ORGANIC MATTER	500 max
MAGNETIC METALS	50 max
NON-FERROUS METALS	20 max
INORGANIC MATERIAL	50 max

GREEN GLASS	20% max
AMBER GLASS	20% max

MOISTURE: None

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